

10/659,153.

C of C



Atty. Dkt. No. 040563-0167

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Grier et al.

Title: TRANSVERSE OPTICAL
ACCELERATOR AND
GENERALIZED OPTICAL
VORTICES

Patent. No.: 7,109,473

Issue Date: 9/19/2006

Examiner: Hashmi, Zia R.

Art Unit: 2881

Confirmation Number: 1851

<p>CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>Sherry Cunningham-Page</u> (Printed Name)</p> <p><u>[Signature]</u> (Signature)</p> <p><u>6/18/07</u> (Date of Deposit)</p>
--

**REQUEST FOR CERTIFICATE OF CORRECTION FOR
PTO MISTAKE PURSUANT TO 37 C.F.R. § 1.322(a)**

**Certificate
of Correction**
JUN 25 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed, in duplicate, is a Certificate of Correction, Form PTO-1050, for United States Patent Number 7,109,473 issued September 19, 2006.

Applicant submits that the above changes would not constitute new matter, and correction thereof would not require reexamination.

Pursuant to 37 C.F.R. §1.322, Applicant requests that the enclosed Certificate of Correction be approved.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date June 18, 2007

FOLEY & LARDNER LLP
Customer Number: 27433
Telephone: (312) 832-4586
Facsimile: (312) 832-4700

By Michael D. Rechtin

Michael D. Rechtin
Attorney for Applicant
Registration No. 30,128

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,109,473
APPLICATION NO. : 10/659,153
DATED : 9/19/2006
INVENTOR(S) : David G. Grier; Jennifer E. Curtis

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 9, line 32, delete "+he" and insert --the--;

In column 11, line 31, insert --efficiency-- after the word *diffraction* and before the words *of roughly 50%*;

In column 15, line 25, delete "+" after the equation $\varphi_a(\vec{r}) = (a_0 / 2^{1/2}) (6\rho^4 - 5\rho^2 + 1)$ *spherical aberration*;

In column 15; line 27, insert --+-- before the equation $a_1(3\rho^3 - 2\rho)\cos(\theta - \theta_1)$ *coma*;

In column 15, line 29, insert --+-- before the equation $a_2\rho^2[2\cos^2(\theta - \theta_2) - 1]$ *astigmatism*;

In column 15, line 30, insert --+-- before the equation $(a_3 / 2^{1/2})(2\rho^2 - 1)$ *field curvature*;

In column 15; line 32, insert --+-- before the equation $a_4\rho\cos(\theta - \theta_4)$ *distortion*;

In column 18; line 4, insert --90-- after *SLM* and before *onto the beam's wavefront splits the single input*;

In column 20; line 5, insert --R-- after the word *IF* and before the words *is larger than*;

In column 27, line 31, claim 4, insert -- $\varphi(\vec{r})$ and \vec{r} -- after the words *modulation is* and before the words *the position relative to*;

MAILING ADDRESS OF SENDER (Please do not use customer number below):

321 North Clark Street
Suite 2800
Chicago, Illinois 60610-4764

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer,

U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,109,473
APPLICATION NO. : 10/659,153
DATED : 9/19/2006
INVENTOR(S) : David G. Grier; Jennifer E. Curtis

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 9, line 32, delete "+he" and insert --the--;

In column 11, line 31, insert --efficiency-- after the word *diffraction* and before the words *of roughly 50%*;

In column 15, line 25, delete "+" after the equation $\varphi_a(\bar{r}) = (a_0/2^{1/2})(6\rho^4 - 5\rho^2 + 1)$ *spherical aberration*;

In column 15; line 27, insert --+-- before the equation $a_1(3\rho^3 - 2\rho)\cos(\theta - \theta_1)$ *coma*;

In column 15, line 29, insert --+-- before the equation $a_2\rho^2[2\cos^2(\theta - \theta_2) - 1]$ *astigmatism*;

In column 15, line 30, insert --+-- before the equation $(a_3/2^{1/2})(2\rho^2 - 1)$ *field curvature*;

In column 15; line 32, insert --+-- before the equation $a_4\rho\cos(\theta - \theta_4)$ *distortion*;

In column 18; line 4, insert --90-- after *SLM* and before *onto the beam's wavefront splits the single input*;

In column 20; line 5, insert --R-- after the word *IF* and before the words *is larger than*;

In column 27, line 31, claim 4, insert -- $\varphi(\bar{r})$ and \bar{r} -- after the words *modulation is* and before the words *the position relative to*;

MAILING ADDRESS OF SENDER (Please do not use customer number below):

321 North Clark Street

Suite 2800

Chicago, Illinois 60610-4764

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer,

U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.